2.9V ↔ 5V
Level shifter

RS-232 Transceiver

RS-485 Driver

Optional Second RS-485

If this transceiver is populated, then CAN2 must be de-populated

CAN Tranceiver # 1

CAN Tranceiver # 2
Title: StarFire (TS-8400) USB ports

USB Ports

SMSC USB Hub

USB Power Switch

Typical 5.3V current with all ports active is 288 mA (950 mw)

Test pins: must be as wired as shown

High = Enable Auto MDIX

Can be used as jumper to enable port power or as an input to trigger other control
POE Side
48V DC Input

5uF (min) Input Filter

12V
150V
80V

Full Wave Rectifiers

Nominal 48VDC IN

Power Good Circuit is optional

Reg. 24V Out

200 KHz typ.

6V operating max
7V absolute max

202R18W102KV4E
1000 pF @ 2KV
4.5 cents @ 3K

202R18W102KV4E
1000 pF @ 2KV
4.5 cents @ 3K

TL401

24V nominal

24V nominal
5V Power Supply (3.0 Amps)

5V to 28V Input

CAN Conn.

5V Regulator Bypass

3.3V Power Supply for LCD
and for radios

June 9, 2010

Technologic Systems
Two 100-pin Module Connectors

Boot Strap

<table>
<thead>
<tr>
<th>Mode</th>
<th>SBC Boot Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>NAND Flash</td>
</tr>
<tr>
<td>1</td>
<td>SD Card</td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

MODE1 and MODE2 states are defined prior to OFF_BD_RESET# deasserted.

Use a 1 kΩ pull resistor to OFF_BD_RESET# to set logic low.

MODE1 and MODE2 have P/C circuits on the SBC module.

OFF_BD_RESET# is an Output used to reset all peripherals.

3.3V load is < 400 mA

1.5V load is < 400 mA